



### TECHNICAL DATA SHEET FOR TREATED RAIN WATER

Sr.No.	Description		Details
1	MAKE	:	WILO MATHER & PLATT
2	DUTY CONDITION	:	7.2 m <sup>3</sup> /h @ 40 Mtr
3	CAPACITY (M <sup>3</sup> /Hr)	:	7.2 m <sup>3</sup> /h / 120 LPM
4	TOTAL DYNAMIC HEAD	:	40 Mtr
5	MODEL NO.	:	CO 2 MVI 805 BC
6	WORKING + STANDBY	:	1W+1S
7	STARTER	:	DOL
8	EFFICIENCY (%) OVERALL	:	65.4 %
9	SHUTT OF HEAD (M)	:	60 Mtr
10	PUMP TYPE	:	VERTICAL INLINE MULTISTAGE
11	ABSORBED POWER (kW)	:	1.2 kW
12	MOTOR RATING	:	1.85 kW
13	SPEED (RPM)	:	2950
14	INSULATION CLASS	:	F
15	IP / EFFICIENCY CLASS	:	IP 55 / IE3

### MATERIAL OF CONSTRUCTION

1	PUMP HOUSING	:	1.4301 [SS 304]
2	IMPELLER	:	1.4301 [SS 304]
3	SHAFT	:	1.4301 [SS 304]
4	GLAND SEALING	:	MECHNCIAL SEAL

Phone  
Fax

**MVI 805/ PN16 3~**  
System: High pressure centrifugal pump

**WILO**

Customer

Project

Customer no.

Project no.

Contact

Position no.

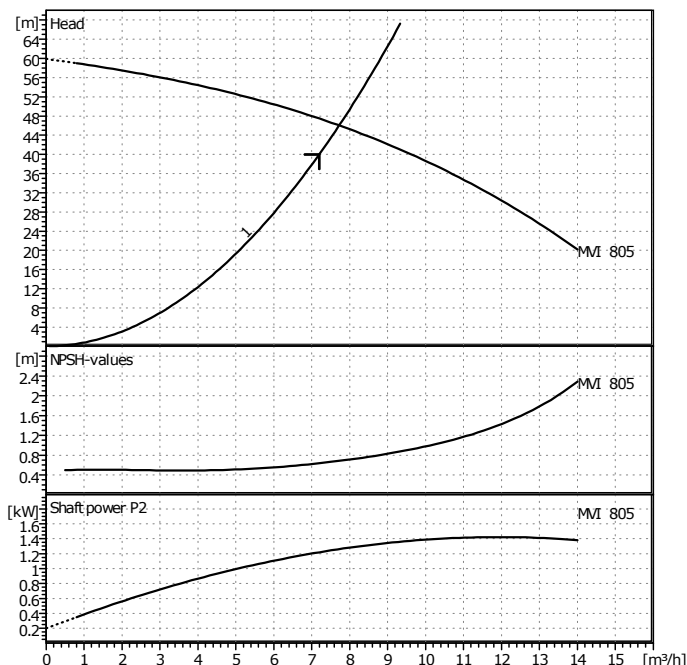
Care of

Location

Date

2020-08-06

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**Requested data**

Flow	7.2	m³/h
Head	40	m
Fluid	Water, pure	
Fluid temperature	20	°C
Density	0.9982	kg/dm³
Kinematic viscosity	1.001	mm²/s
Vapor pressure	0.1	bar

**Pump data**

Make	WILO	
Type	MVI 805/ PN16 3~	
Pumpe type	Single head pump	
Pressure rating	PN 16	
Min. fluid temperature	-15	°C
Max. fluid temperature	120	°C

**Hydraulic data (duty point)**

Flow	7.73	m³/h
Head	46	m
Speed	2900	1/min
Shaft power P2	1.25	kW
NPSH	0.684	m

**Materials / Shaft seal**

Impellers	1.4301
Stage chambers	1.4301
Pressure casing	1.4301
Shaft	1.4301
Housing cover	1.4301
Seal	EPDM
Mechanical seal	Wolfram carbide/graphit

**Dimensions per pump**

mm

E	250						
H	714						
h <sub>2</sub>	434						
X	148						
M	190						

Suction side 1½" / PN 16

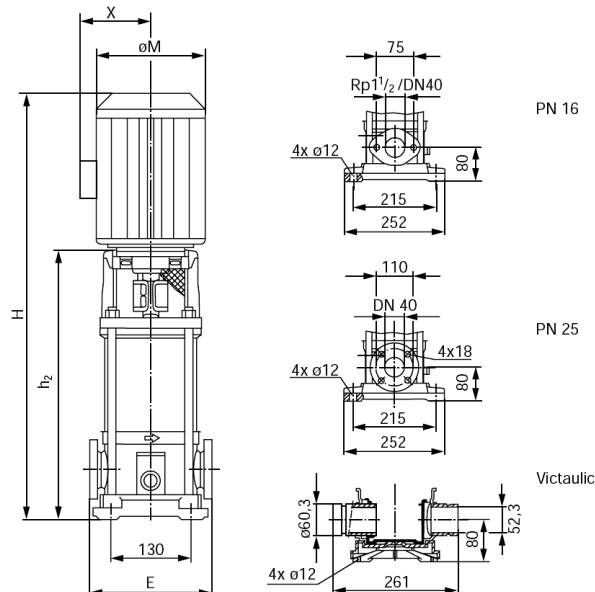
Discharge side 1½" / PN 16

Weight 31.3 kg

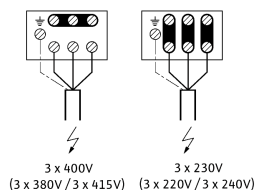
**Motordata per Motor/Pump/**

Rated power P2	1.85	kW
Nominal speed	2950	1/min
Rated voltage	3~400 V, 50 Hz	
Max. current	4	A
Degree of protection	IP 55	
Permitted voltage tolerance	+/- 10%	

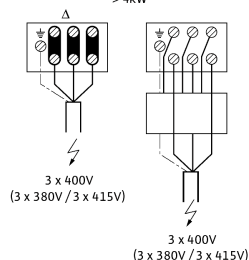
Item no. of standard version 4024729



MOT. 230 - 400V (220 - 380V / 240 - 415V)  
< 4kW



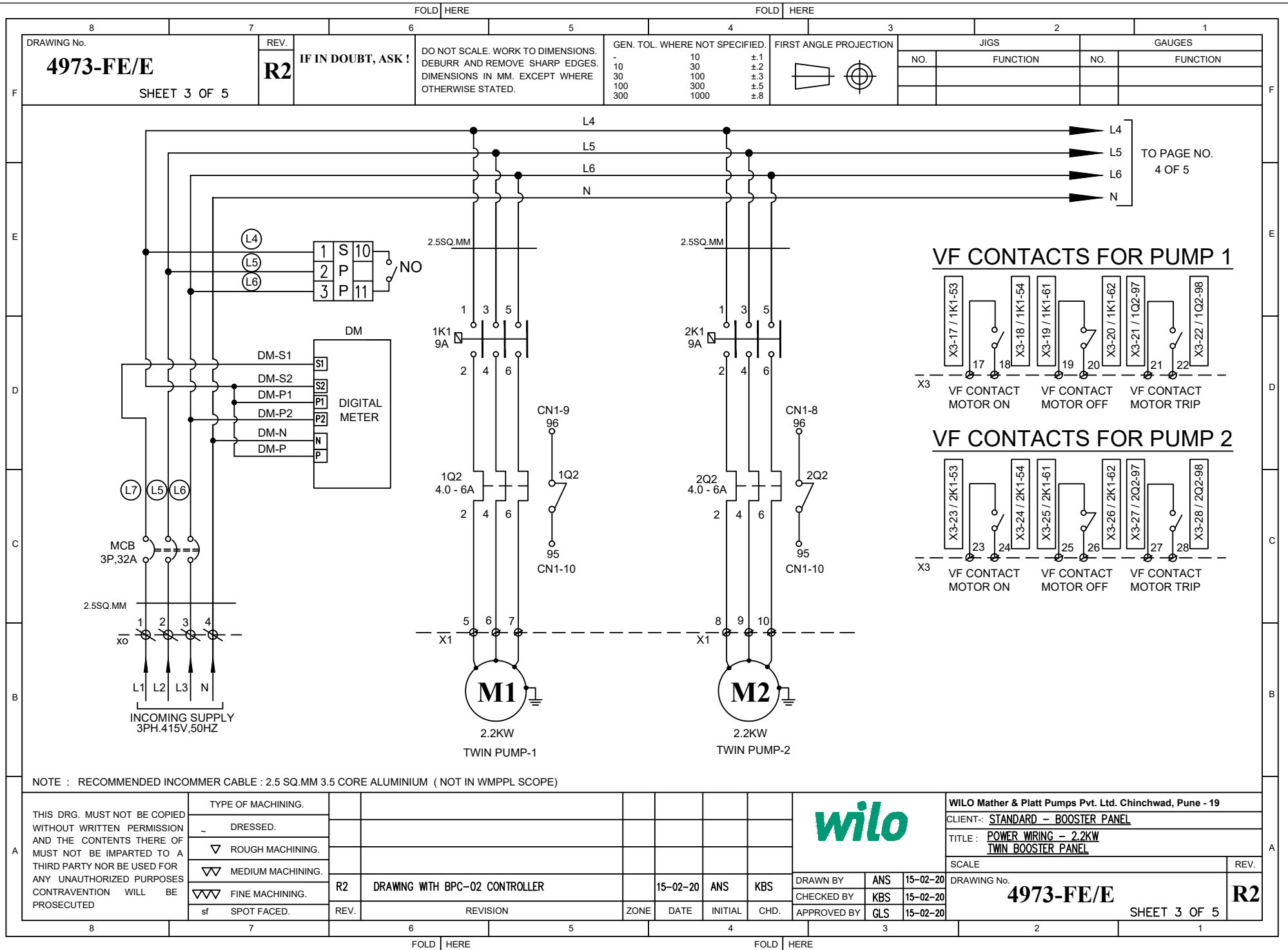
MOT. 400V (380V / 415V)  
> 4kW



**ARTICLE- 8188500**

**ARTICLE- 8188500**

	8		7		6		5		4		3		2		1		
DRAWING No.	<b>4973-FE/E</b>			REV. <b>R2</b>	IF IN DOUBT, ASK !	DO NOT SCALE. WORK TO DIMENSIONS. DEBURR AND REMOVE SHARP EDGES. DIMENSIONS IN MM. EXCEPT WHERE OTHERWISE STATED.			GEN. TOL. WHERE NOT SPECIFIED. -           10          ±.1 10       30          ±.2 30      100         ±.3 100     300         ±.5 300    1000        ±.8		FIRST ANGLE PROJECTION 	JIGS NO. FUNCTION NO. FUNCTION		GAUGES NO. FUNCTION			
SHEET 2 OF 5																	
<u>TWIN BOOSTER PANEL BOM (2.2KW)</u>																	
NO.	COMPONENT NAME	DESCRIPTION	MAKE	QTY.													
1.	MCB	MINIATURE CIRCUIT BREAKER 3P,32A	SCHNEIDER	1 NO													
2.	DM	DIGITAL METER – DM	WILO	1 NO													
3.	1K1,2K1	POWER CONTACTOR – 3P,9A	SCHNEIDER	2 NOS													
4.	1Q2,2Q2	OVERLOAD REALY 4.0 – 6A	SCHNEIDER	2 NOS													
5.	BPC_02	TWIN PUMP ELECTRONIC CONTROLLER	WMPPPL	1 NO													
6.		CLIPON TERMINAL 2.5 SQ.MM	ELMEX	20 NOS													
7.		END PLATE 2.5 SQ.MM	ELMEX	4 NOS													
8.		END PLATE 4.0 SQ.MM	ELMEX	3 NOS													
9.		CLIPON TERMINAL 4.0 SQ.MM	ELMEX	10 NOS													
10.		END CLAMP	ELMEX	6 NOS													
11.		PANEL – 300W X 400H X 210D MM	RITTAL	1 NO													
12.		POWER CABLE – 2.5 Sq.mm	POLYCAB	AS REQ.													
13.		CONTROL CABLE – 1.0 Sq.mm	POLYCAB	AS REQ.													
14.		CABLE GUIDE (25MM X 45MM)	TRINITY TOUCH	1 MTR.													
15.		DIN RAIL CHANNEL	TRINITY TOUCH	500 MM													
16.	SPP	SINGLE PHASE PREVENTER	GIC/MINILEC	1 NO													
17.	SW1,SW2	AUTO–OFF–MANUAL SELECTOR SWITCH	TEKNIC	2 NOS													
18.		NO ELEMENT	TEKNIC	6 NOS													
19.		ADAM BLOCK (1NO + 1NC)	SCHNEIDER	2 NOS													
THIS DRG. MUST NOT BE COPIED WITHOUT WRITTEN PERMISSION AND THE CONTENTS THERE OF MUST NOT BE IMPARTED TO A THIRD PARTY NOR BE USED FOR ANY UNAUTHORIZED PURPOSES CONTRAVENTION WILL BE PROSECUTED					TYPE OF MACHINING.										WILO Mather & Platt Pumps Pvt. Ltd. Chinchwad, Pune - 19		
					~ DRESSED.										CLIENT:- STANDARD – BOOSTER PANEL		
					▽ ROUGH MACHINING.										TITLE: BILL OF MATERIAL – 2.2KW TWIN BOOSTER PANEL		
					∇ MEDIUM MACHINING.										SCALE _____ REV.		
					∇∇ FINE MACHINING.	R2	DRAWING WITH BPC-02 CONTROLLER		15-02-20	ANS	KBS	DRAWN BY _____ DATE 15-02-20	CHECKED BY _____ DATE 15-02-20	APPROVED BY _____ DATE 15-02-20	DRAWING No. <b>4973-FE/E</b>	<b>R2</b>	
sf SPOT FACED.	REV.											SHEET 2 OF 5					
	8		7		6		5		4		3		2		1		
FOLD HERE																	



REV.

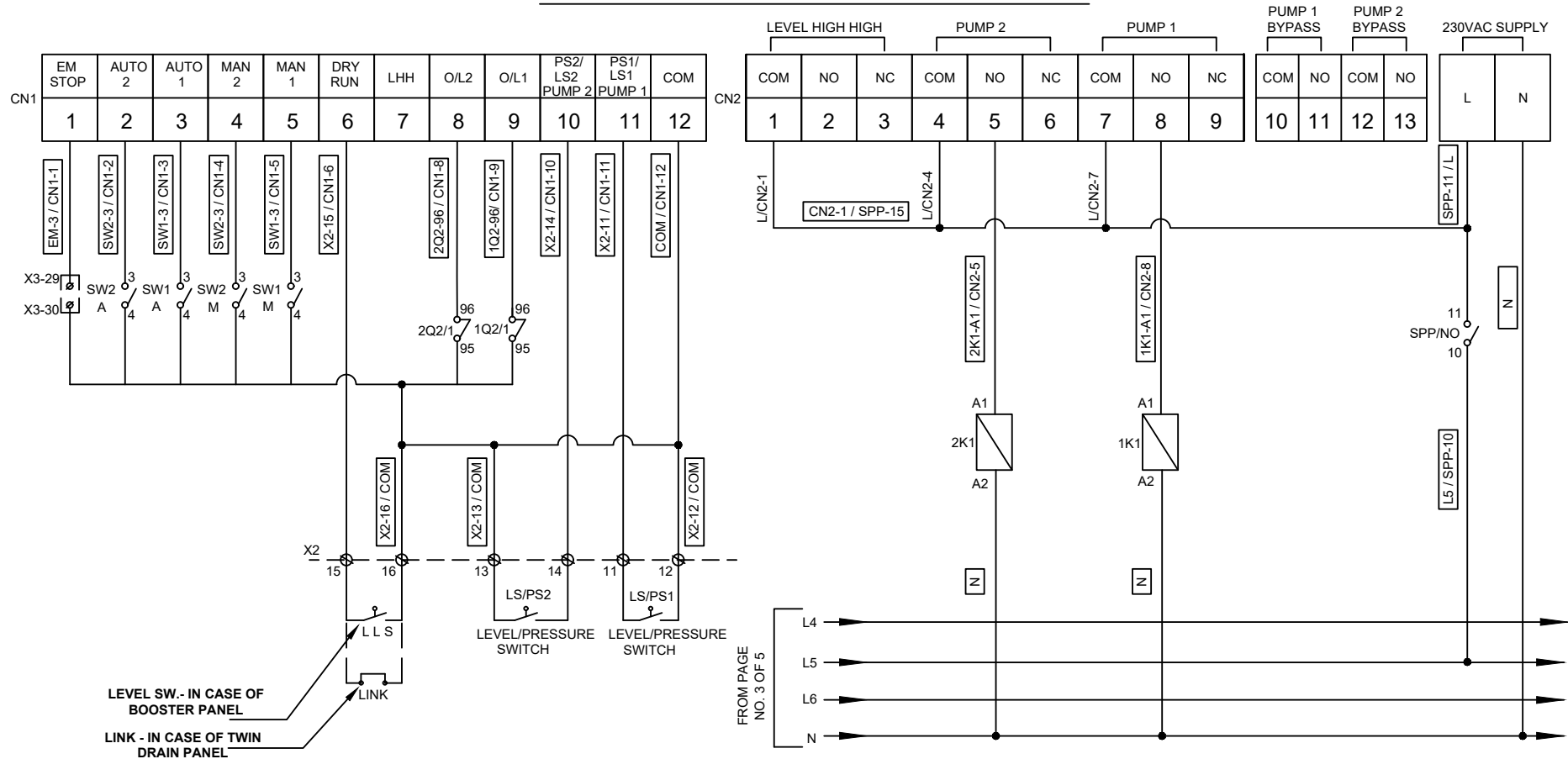
R2

DO NOT SCALE. WORK TO DIMENSIONS.  
DEBURR AND REMOVE SHARP EDGES.  
DIMENSIONS IN MM. EXCEPT WHERE  
OTHERWISE STATED.

FIRST ANGLE PROJECTION

N	JIGS		GAUGES	
	NO.	FUNCTION	NO.	FUNCTION

## BPC 02 - CONTROL RELAY WIRING DIAGRAM



R2

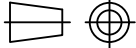
KBS

15-02-20

15-02-20	
15-02-20	

SHEET 4 OF 5

R2

8		7		6		5		4		3		2		1			
DRAWING No. <b>4973-FE/E</b>				REV. <b>R2</b>		IF IN DOUBT, ASK !		DO NOT SCALE. WORK TO DIMENSIONS. DEBURR AND REMOVE SHARP EDGES. DIMENSIONS IN MM. EXCEPT WHERE OTHERWISE STATED.		GEN. TOL. WHERE NOT SPECIFIED. - 10 ±1 10 30 ±2 30 100 ±3 100 300 ±5 300 1000 ±8		FIRST ANGLE PROJECTION 		JIGS		GAUGES	
														NO. FUNCTION		NO. FUNCTION	
SHEET 5 OF 5																	

## TERMINAL DETAILS

(VF CONTACTS FOR PUMP 1)

X3	17	←	X3-17 / 1K1-53
	18	←	X3-18 / 1K1-54
	19	←	X3-19 / 1K1-61
MOTOR ON VF CONTACT	20	←	X3-20 / 1K1-62
MOTOR OFF VF CONTACT	21	←	X3-21 / 1Q2-97
MOTOR TRIP VF CONTACT	22	←	X3-22 / 1Q2-98
(VF CONTACTS FOR PUMP 2)			
	23	←	X3-23 / 2K1-53
MOTOR ON VF CONTACT	24	←	X3-24 / 2K1-54
MOTOR OFF VF CONTACT	25	←	X3-25 / 2K1-61
MOTOR TRIP VF CONTACT	26	←	X3-26 / 2K1-62
	27	←	X3-27 / 2Q2-97
	28	←	X3-28 / 2Q2-98
EMERGENCY STOP			
X3	29	←	X3-29 / CN1-1
	30	←	X3-30 / COM

LEVEL SW. FOR BOOSTER PANEL

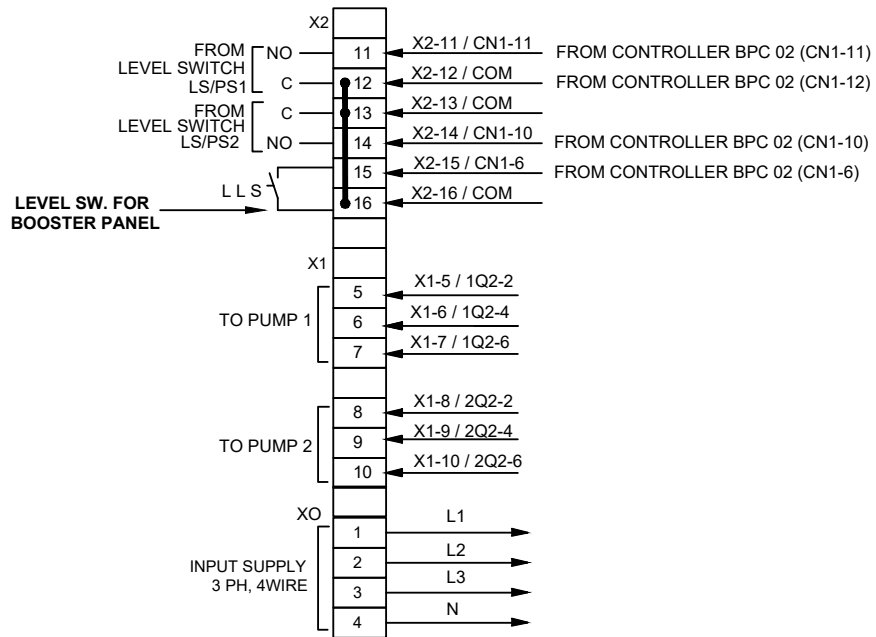



Diagram showing terminal connections for Level Switch (LS) and Pumps (PUMP 1, PUMP 2). Includes input supply (L1, L2, L3, N) and output lines (XO).

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TYPE OF MACHINING.	
~	DRESSED.
▽	ROUGH MACHINING.
▽▽	MEDIUM MACHINING.
▽▽▽	FINE MACHINING.
sf	SPOT FACED.



DRAWN BY: ANS 15-02-20

CHECKED BY: KBS 15-02-20

APPROVED BY: GLS 15-02-20

WILO Mather & Platt Pumps Pvt. Ltd. Chinchwad, Pune - 19

CLIENT:- STANDARD – BOOSTER PANEL

TITLE : CONTROL WIRING – 2.2KW TWIN BOOSTER PANEL

SCALE \_\_\_\_\_ REV. \_\_\_\_\_

DRAWING No. **4973-FE/E**

SHEET 5 OF 5

8		7		6		5		4		3		2		1	
REV.				REVISION				ZONE		DATE		INITIAL		CHD.	